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For Week Engling December 27

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICE

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INTERNATIONAL NOTES INFLUENZA

Widespread influenza activity has been occurring in Europe during the past month with large numbers of cases and widespread absenteeism reported.

In the United Kingdom, a sharp rise in influenza activity was noted during the week ending Dec. 12, 1969, affecting primarily London and southeastern England, with scattered outbreaks occurring elsewhere. (1) Provisional data from the General Register Office (2) show that the number of deaths attributed to influenza rose from an average of 4 per week in November to 52 for the week ending December 12. Pneumonia deaths increased to 1,136 from 750 and bronchitis deaths to 804 from 485. Of the 52 influenza deaths, 79 percent were in persons over age 55. A fourfold rise in cases diagnosed as influenza was noted between the last week of November and the first week in

December. Activity has continued to increase in the London area with hospitals now accepting emergency cases only. Widespread industrial absenteeism has been reported, as well as staff shortages in hospitals and in ambulance, fire, transportation, post office, and communication services. Isolates were confirmed as similar to A2/Hong Kong/68. (3)

In France, many cases were also reported with epidemics in the Departments of Perigeux, Toulouse Lot,

(Continued on page 456)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

	52nd WEE	K ENDED	MEDIAN	CUMULATIVE, FIRST 52 WEEKS			
DISEASE	December 27, 1969	December 28, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968	
Aseptic meningitis	25	80	29	3,484	4,374	2,940	
Brucellosis		7	8	230	232	252	
Diphtheria		20	10	213	260	214	
Encephalitis, primary:							
Arthropod-borne & unspecified	15	23	23	1,319	1,455	1,880	
Encephalitis, post-infectious	6	7	10	314	465	713	
Hepatitis, serum	89	105	} 715	5,359	4,715	37,652	
Hepatitis, infectious	638	685	113	48,085	45,578	31,034	
Malaria	35	55	50	3,216	2,370	559	
Measles (rubeola)	310	257	1,232	24,600	22,617	203,010	
Meningococcal infections, total		25	53	2,922	2,521	2,813	
Civilian		25		2,664	2,306	•	
Military		-		258	215		
Mumps	1,392	1.649		88,375	148,804		
Poliomyelitis, total	_	2	3	17	59	67	
Paralytic		2	3	16	59	59	
Rubella (German measles)		281		55,168	48,446		
Streptococcal sore throat & scarlet fever		8,594	8,594	426,271	435,136	422,918	
Tetanus		3	5	166	163	233	
Tularemia		3	9	142	175	192	
Typhoid fever	6	7	7	341	408	408	
Typhus, tick-borne (Rky. Mt. spotted fever).	_	2	2	450	279	262	
Rabies in animals	32	51	60	3,286	3,363	4.172	

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Calif2 Leptospirosis: * Calif1, Fla2 Plague: Psittacosis:	14 91 5	Rabies in man: Rubella congenital syndrome: Ore1 Trichinosis: Typhus, murine:	16

^{*}Delayed reports: Leptospirosis: Iowa 5.

EPIDEMIOLOGIC NOTES AND REPORTS

CLOSTRIDIUM PERFRINGENS FOOD POISONING - Memphis, Tennessee

On Oct. 22 and 23, 1969, an outbreak of gastroenteritis occurred among pupils and teachers of the Memphis, Tennessee, public school system who ate the noon meal in school cafeterias on October 22. Approximately 67,000 persons were served, of whom 1,844 in nine schools were interviewed. Of these, 628 gave a history of gastroenteritis for an overall attack rate of 34 percent. Complete food and illness histories were obtained from 102 individuals. Of these, 76 persons reported illness characterized by diarrhea and abdominal cramps without fever. Incubation periods ranged from 3 to 18 hours (mean 10.1 hours — Table 1), and duration of illness was 4 to 48 hours (mean 17 hours). Food specific attack rates incriminated the main entree, braised beef on rice, as the contaminated vehicle (Table 2).

Toble 1 Incubotion Periods for Foodborne Illness Memphis, Tennessee October 22, 1969

Ilours	Number of Cases
3	1
4	6
5	4
6	3
7	7
8	1
9	6
10	6
11	5
12	13
13	6
14	6
15	3
16	1
17	0
18	2
Unknown	7
Total	76

The beef was purchased from a local packinghouse which supplied choice beef from a large Oklahoma packer. Beef roasts were delivered to the schools on October 20 and 21. In each school kitchen, the roasts were cooked for 1 hours the day prior to serving. After being cooled at room temperature for $1\frac{1}{2}$ hours, they were placed in a refrigerator for overnight storage. On the morning of serving, the beef was cut into cubes, combined with tomatoes, green peppers, onions, and flour and cooked for approximately 1 hour nt 450° F.

Dry U.S. Government commodity rice was delivered to the Memphis schools on October 15. After washing on October 22, the rice was cooked in water in a 450° F, oven for 1 hour.

Toble 2
 Food-Specific Attock Rotes, Foodborne Illness
 Memphis, Tennessee
 October 22, 1969

Food Items Served				Persons ecified	Number of Persons Who Did NOT Eat Specified Food					
	III	Not III	Total	Percent Ill	Ill	Not Ill	Total	Percent Ill		
Braised beef		:								
on rice	74	17	91	81*	2	9	11	18*		
Green peas	48	20	68	71	28	6	34	82		
Cabbage pepper salad	36	12	48	75	40	14	54	74		
Buttered biscuits	46	12	58	79	30	14	44	68		
Peach cobbler		22	84	73	14	4	18	78		
Milk	60	16	76	79	16	10	26	62		

^{*} P < .00001

The braised beef and rice were taken from the ovens at approximately 10:45 a.m. and placed on the steam table for serving. Serving began at 11:00 a.m. Steam tables were were maintained at 140° F, throughout the serving time.

Cultures of leftover braised beef on rice were obtained on October 23. No pathogens were isolated. Clostridium perfringens was isolated from the stools of 25 of 28 patients and from raw meat at the Memphis packinghouse. C. perfringens isolates from the feces of 14 patients and four samples of the raw beef were serotyped. No common serotype was identified, but eight isolates from the 14 patients and two of the raw beef samples yielded organisms which did not react with available antisera.

The U.S. Department of Agriculture is conducting an investigation at the two packing plants.

(Reported by William II. Armes, Jr., Deputy Commissioner, Cecil B. Tucker, M.D., Director, Bureou of Preventive Itealth Services, W. M. Arnold. Director, Memphis Bronch Loborotory, ond J. II. Barrick, Ph.D.. Director, Division of Biological Laborotories, Tennessee Deportment of Public Itealth; George S. Lovejoy, M.D., F.A.A.P., Director, Donald R. Daffron, Administrative Assistant, Sanitotion Division, and R. C. Rendtorff, Sc.D., M.D., Director, Division of Communicable Disease Control, Memphis and Shelby County Itealth Department; Anaerobic Bocteriology Loborotory, Bocteriol Reference Unit, Bacteriology Section, Microbiology Bronch, Laboratory Division, NCDC; and on Els Officer.)

Editorial Note:

The epidemiology and clinical characteristics of this large outbreak are compatible with *C. perfringens* food poisoning. Of the 61 vehicles associated with *C. per-*

fringens outbreaks reported to NCDC in 1968 (MMWR, Vol. 18, No. 12), 24 involved beef products.

Involvement throughout the Memphis school system suggests that the contamination of the meat occurred before it was delivered to the schools. Inadequate cooking at the schools followed by cooling at room temperature the day prior to serving may have provided an atmosphere for incubation of the organism. Reheating for 1 hour the fol-

lowing day at 450° F. may not have been sufficient to kill the organisms.

The inability to demonstrate a common serotype may be a reflection of the small number of isolates from each patient submitted for serotyping. More likely, since isolates from eight of 14 patients and the beef did not react with the 91 types of *C. perfringens* antisera presently available, a "nontypable" strain may have been involved.

CURRENT TRENDS ENCEPHALITIS — California

The encephalitis surveillance network set up in Califorma in June 1969 (MMWR, Vol. 18, No. 28) continued through September. Hospital surveillance of acute central nervous system illness was carried out in 54 hospitals (7,800 beds) in 20 counties in the San Joaquin and Sacramento Valleys. During 17 weeks of surveillance, these hospitals reported 46 cases of encephalitis, 76 cases of aseptic meningitis, and 427 other acute neurologic illnesses. Five cases of encephalitis in the study area were confirmed by specific antibody titer rise as due to an arbovirus and were further characterized as St. Louis encephalitis (SLE) virus infection. The five patients were between 14 and 66 years of age, and all recovered completely. Three of the five patients with SLE virus infection were hospitalized in survey hospitals and were detected by that system; the other two were not treated in the hospitals included in the survey. Central nervous system illness due to echovirus types 4 and 9, Coxsackie virus B4, and mumps virus were also recognized in the study area.

For the state as a whole, 57 clinical cases of enceph-

alitis in equines were reported, and serologic tests were done on specimens from 30 of these equines. Western equine encephalomyelitis (WEE) virus infection was confirmed by fourfold titer rise in two of these equines, and high stationary levels of antibody to WEE virus were found in five other unimmunized equines. None of 319 wildlife specimens tested for arboviruses were positive. SLE virus has been isolated from 23 of 1,579 pools of *Culex tarsalis* mosquitoes collected in the Sacramento Valley during the period July to September. Positive pools were collected about the same time and from the same places where human encephalitis was found.

(Reported by R. W. Emmons, M.D., and R. Marlor, M.D., Epidemiologists, Bureau of Communicable Disease Control, G. Humphrey, D.V.M., Chief, Veterinary Public Health Section, E. H. Lennette, M.D., Chief, Viral and Rickettsial Disease Laboratory, and R. Peters, Chief, Bureau of Vector Control, California Department of Public Health; and William B. Reeves, Ph.D., Dean, School of Public Health, University of California, Berkeley.)

INTERNATIONAL NOTES QUARANTINE MEASURES SMALLPOX VACCINATION REQUIREMENTS—Australia

In the past, air travelers over 12 months old who arrived in Australia without valid International Certificates of Vaccination against Smallpox were compelled by the Australian health authorities to be isolated for 14 days. Now, however, travelers over 12 months of age who arrive by air from Canada or the United States and have not been outside these two countries or countries situated on the direct trans-Pacific air routes between Australia and North America (Fiji Islands, New Caledonia, New Zealand) for at least 14 days prior to arrival in Australia and who do not possess a current International Certificate of Vaccination against Smallpox may be placed under quarantine surveillance for 14 days from the date of departure from Canada or the United States. Infants under the age of 12 months remain exempt from Australia's smallpox vaccination requirements.

Travelers whose circumstances preclude smallpox vaccination due to medical contraindication must present a letter issued by a licensed physician stating that the traveler is suffering from a condition which makes smallpox vaccination ill-advised. Recognized contraindications include (1) pregnancy; (2) eczema; (3) agammaglobulinemia or hypogammaglobulinemia; (4) a past history of exfoliative dermatitis, generalized vaccinia, or postvaccinial encephalitis; (5) a history of treatment with immunosuppressive agents such as corticosteroids, antilymphocytic serum, alkylating or cytotoxic drugs, or irradiation therapy other than superficial therapy; and (6) cachexia associated with malignant or other serious organic disease.

(Reported by the Foreign Quarantine Program, NCDC.)

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 27, 1969 AND DECEMBER 28, 1968 (52nd WEEK)

	ASEPTIC ENCEPHALITIS HEPATITIS												
	ASEPTIC MENIN-	BRUCEI	DIPHTHERIA		including	Post-	,	IEPAITII5		MALA	DIA		
AREA	GITIS	LOSIS	BIT III III III III		cases	Infectious	Serum	Infec	tious	I LIVE SA			
	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969		
UNITEO STATES	2.5	5	4	15	23	6	89	638	685	35	3,216		
NEW ENGLAND	1				2	_	7	81	33	1	103		
Maine		_		_	_			2	6		8		
New Hampshire	_	_	_ :	_	1	_	_	4	i	_	2		
Vermont	-	_	_	_	_	_	-	1	_	-	_		
Massachusetts	_	_	-	-	_	-	-	41	8	-	60		
Rhode Island	1	-	-	-	_	- :	2	18'	8	-	11		
Connecticut	_	-	-	-	1	- 1	5	15	10	1	22		
MIDDLE ATLANTIC	2	_	_	3	2	_	39	73	114	6	394		
New York City	_	_	_		1	_	24	_	55	1	28		
New York, Up-State.					_				15		85		
New Jersey*	-	_	-	-	1	-	13	53	8	5	158		
Pennsylvania	2	_	-	3	-	-	2	20	36	-	123		
FACE MODELL CENTRAL	2			-	10	,	,	120	0.0	,	330		
EAST NORTH CENTRAL	3 1	_	1 -	5 3	10 4	1 _	2	138 33	98 20	4	33		
Indiana	_	_	_	1	_	_	_	15	7	i	28		
Illinois	1	_	1	_	1	1	1	36	18	1	198		
Michigan	1	_	-	1	4	_	1	50	46	1	70		
Wisconsin	_	-	-	-	1	-	-	4	7	-	1		
								• •			000		
WEST NORTH CENTRAL	1	-	-	1	1	-	-	18	42	3	232		
Minnesota* Iowa*.	- 1	-	_	1	_	-		1	14	_	14 28		
Missouri		_	_	_	1	_	_	13	13	_	45		
North Dakota	_	_	_	_		_	_			_	4		
South Dakota	_	_	_	_	_	_	_	1	_	_	2		
Nebraska	_	_		_	_	-	_	1	-	1	6		
Kansas	-	-		-	_	-	-	2	8	2	133		
COURT ART AVETO					_								
SOUTH ATLANTIC Delaware	2	4	- '	2	3	- 1	6	55	77	11	811		
Maryland	-	-	-	-	-	-	_ 1	5	1 14	- 8	5 42		
Oist. of Columbia*.	_	_	_ :	_	1 :			_	4	-	42 2		
Virginia	_	4	-	-	2	_	_	5	7	1	28		
West Virginia	-	-	-	_	-	-	-	4	2	-	4		
North Carolina	-	-	-	-	-	-	-	4	6	-	332		
South Carolina	-	-	-	-	-	- !	_	3	3	-	65		
Georgia Florida	2	_	_	_ 2	_	_	- 5	9 25	6 34	2	280 53		
riorida	4	_	_	4	_	_	,	23	, ,,,		.,,		
EAST SOUTH CENTRAL	2	_	1	_	_	_	1	34	20	_	198		
Kentucky	-	-	_	_	;	_	-	13	11	-	169		
Tennessee	-	-	-	_	-	- !	1	8	1	-	-		
Alabama	1	-	-	-	-	-	-	11	7	-	25		
Mississippi	1	-	1	_	-	- 1	-	2	1	-	4		
WEST SOUTH CENTRAL	_ !	_	2	1	_	_	_	16	43	2	289		
Arkansas	_	_	_		_	_	_	-	-	_	13		
Louisiana*	_	_	2	1	_	-	-	-	6	-	46		
Oklahoma*	-	-	-	-	-	-	-	6	8	2	81		
Texas	-	-	-	-	-	-	-	10	29	-	149		
					,			20			120		
MOUNTAIN	1	_	_	_	3	_	_	30 1	18	_	138 3		
MontanaIdaho	_ [_	_	_	_	_	_	1	_	_	5		
Wyoming	_	_	_	_	_	_	_	2	_		_		
Colorado	1	_	_	_	_	-	-	10	_	_	112		
New Mexico	-	-	-	-	-	-	-	-	2	-	9		
Arizona*	-	-	_	-	1	-	-	11	4	-	1		
Utah	-	-	-	-	-	-	-	5	3	-	1		
Nevada	-	-	-	-	_	-	-	-		-	7		
PACIFIC	13	1	_	3	1	5	32	193	240	8	721		
Washington	1		_	_		_	- J2	17	13	_	721		
Oregon	_	_	_	1	_	_	4	11	10	1	19		
California	12	1	_ :	2	1	5	28	159	202	7	560		
Alaska	-	-	-	-	-	-	-	3	12	-	4		
Hawaii	_	_	-	-	-	-	-	3	3	-	131		
Puerto Rico*									17		4		
Tool to Rico									1 ''		4		

^{*}Delayed reports: Asentic meningitis: Okla. 1 Brucellosis: Okla. 1

Encephalitis, primary: Minn. 1, Iowa 1 Encephalitis, post-infectious: Minn. 1

Hepatitis, serum: La. 1 Hepatitis, infectious: N.J. 1, D.C. 17, Ariz. 18, P.R. 17 Malaria: Iowa 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 27, 1969 AND DECEMBER 28, 1968 (52nd WEEK) - CONTINUED

DECEMBER 27, 1969 AND DECEMBER 28, 1968 (52nd WEEK) - CONTINUED											
	ME A	ASLES (Rube	eola)	MENINGO	COCCAL INF	PECTIONS,	MUMPS		POLIOMYELITIS		
AREA		Cumu1	Cumulative		Cumu l	lative		Total	Para	lytic	
	1969	1969	1968	1969	1969	1968	1969	1969	1969	Cum. 1969	1969
UNITED STATES	310	24,600	22,617	36	2,922	2,521	1,392	_	_	16	429
AUTH THE LAW			4 270			400	100				
NEW ENGLAND	2	1,213	1,379 38	2	114	139 6	109 10	_	_	2	47
New Hampshire	1	248	150	_	5	8	2	_			1
Vermont	_	3	4	_	_	1	2	-	-	_	
Massachusetts	1	268	386	-	44	74	29	-	-	-	2
Rhode Island	-	27	94	1	15	9	22	-	_		2
Connecticut	_	657	707	1	42	41	44	-	_	1	42
MIDDLE ATLANTIC	30	8,050	4,743	1	479	443	126	_	_	2	31
New York City	11	5,039	2,433	-	89	90	57	-	_	-	3
New York, Up-State.		633	1,388		97	75	NN			1	
New Jersey Pennsylvania	13 6	1,126	721 201	1	186 107	156 122	69 NN	-	-	1	12
reillisy Ivalita	б	1,252	201	'	107	122	ININ	-	_	'	16
EAST NORTH CENTRAL	161	3,288	4,261 -	5	396	318	503	_	_	1	118
Ohio	15	568	333	1	140	85	69	-	-	-	8
Indiana	16	501	746	1	53	45	18	-	-	-	14
Illinois	115	1,129	1,445	1	57	72	80	-	_	1	21
Michigan Wisconsin	4 11	402 688	353 1,384	2	118 28	91 25	87 249	_	_	_	29 46
		000	1,304		20	25	247				40
WEST NORTH CENTRAL	-	1,238	488	3	142	143	26	_	-	1	13
Minnesota	_	11	19	-	29	32	-	-	_	-	-
Iowa	-	338	165	-	21	14	21	-	1 -	-	6
Missouri North Dakota	-	32	81	1	57	50	2	-	-	-	6
South Dakota*	_	81 51	142 4	_	2	4 5	3 NN	Ξ	_	_	1 _
Nebraska.*	_	716	67	1	14 -	9	-	Ξ		_	_
Kansas	-	9	10	1	18	29	-	_	_	1	_
2011MV 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				_							
SOUTH ATLANTIC Delaware	49	3,019	1,862	7	510	505	151	-	-	1	32
Maryland	14	522 100	23 104	_ 2	17	12	15	-	1 -	-	2
Dist. of Columbia	-	35	6	-	43 9	44 20	15 1	Ξ	_		_
Virginia	12	1,011	460	_	60	50	28	_	1 -	1 -	14
West Virginia	_	226	337	1	25	14	41	_	_	_	7.
North Carolina	19	373	322	3	99	99	NN	-	_	-	2
South Carolina	-	134	31	1	70	63	6	-	-	-	_
Georgia Florida	4	2	4 -	-	78	98	-	-	-	-	_
110[10]	4	616	575	_	109	105	60	-	-	1	7
EAST SOUTH CENTRAL	1	132	508	-	211	222	51	-	_	1	14
Kentucky	-	75	107	-	85	98	12	-	-	-	4
Tennessee	-	21	65	-	77	70	35	-	-	-	7
Alabama Mississippi	1 _	12 24	95 241	_	28 21	29 25	4	_	_	1 _	3
								_	_	_	_
WEST SOUTH CENTRAL	32	5,227	5,381	7	387	365	76	_	-	6	64
Arkansas	-	16	2	-	34	22	-	-	-	-	-
Louisiana	_	125 143	27 132	4	105	104	- 20	-	-	-	-
Oklahoma Texas	32	4,943	5,220	3	36 212	57 182	38 38	_		6	14 50
							55]
MOUNTAIN	17	1,182	1,100	-	59	46	77	-	-	1	31
Montana	-	122	58	-	8	7	15	-	-	1	4
Idaho	_	90	21 55	_	13	12	_	_	-	-	-
Colorado	_	142	526	_	13	14	29	_		_	1 11
New Mexico	_	290	176	_	8	1	4	_	_	_	'-
Arizona	17	526	235	-	10	5	29	_	-	_	11
Utah	-	11	21	-	5	1	-	-	-	-	4
Nevada	-	1	8	-	2	3	-	-	-	-	-
PACIFIC	18	1,251	2,895	11	624	340	273	_		1	79
Washington	-	69	607	2	61	52	123	_	_	,	29
Oregon	-	201	594	3	25	26	17	_	_	_	7
California	18	915	1,648	6	517	244	111	-	_	1	37
Alaska	_	14	11	-	11	4	11	-	-	-	1
Hawaii		52	35		10	14	11	_	-		5
Puerto Rico*		2,131	524		19	21				_	
*Delayed reports: Meas											

*Delayed reports: Measles: N.J. delete 1, S. Dak. 48, Nebr. 40, P. R. 35

Mumps: P. R. 16

Poliomyelitis: Mont. delete 1 unspecified, add 1 paralytic
Rubella: P. R. 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

DECEMBER 27, 1969 AND DECEMBER 28, 1968 (52nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TULA	REMIA	TYPH FEV		TICK	S FEVER -BORNE . Spotted)		ES IN
	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES	5,851	_	166	1	142	6	341	_	450	32	3,286
			·								
NEW ENGLAND	960	-	1	-	16	-	16	-	1	-	57
Maine*	16 44	_	-	-	_	_	1 _	_	-	_	6 5
Vermont	3	_	_	_	16	_	_	_	_	_	35
Massachusetts	148	_ i	1	_	_	_	8		1	_	3
Rhode Island	82	_	_	_	_	_	1	_ 1	-	-	_
Connecticut	667	-	-	-	-	-	6	-	-	-	8
MIDDLE ATLANTIC	164	_	24		5	_	33	_	47	_	254
New York City	-	_	14	_	í	_	17	_	-	_	-
New York, Up-State.	•••		3		4		6		7		240
New Jersey.*	NN	-	4	-	_	-	4	-	15	-	_
Pennsylvania	164		3	-	-	-	6	-	25	-	14
EAST NORTH CENTRAL	824	_	19	_	18	1	37		3	_	233
Ohio	114	_	4	_	-		13	_	_		76
Indiana	91		-	_	6		- 13	_	_	_	56
Illinois	231	_	10	_	5	1	17	_	3	-	40
Michigan	240	-	5	-	_	-	6	_	-	-	10
Wisconsin	148	-	-	-	7	-	1	-	-	-	51
WEST NORTH CENTRAL	261	_	14	_	14	_	10	_	8	4	624
Minnesota	4	_	6		-	_	4	_	-	1	166
Iowa	106	-	_	_	_	-	1	_	7	_	103
Missouri	5	-	4	-	10	-	3	_	-	2	149
North Dakota	110	-	-	-	-	-	-	-	-	-	77
South Dakota	25	-	-	-		-	-	-	1	-	43
Nebraska	7	-		-	1	-	1	-	-	-	14 72
Kansas	4	-	4	- 1	3	-	1	-	-	1	12.
SOUTH ATLANTIC	973	_	31	_	23	2	52	_	253	14	785
Delaware	17		_	-	1	-	2	_	3	-	_
Maryland*	217	-	2	-	-	-	4 .	-	48	_	3
Dist. of Columbia	1	-	2	-	-	-	3	-	_	-	-
Virginia	256	-	2	-	4	-	1	-	81 5	4	375 114
West Virginia North Carolina	69 NN	_	3	_	2 6	_ 2	13	_	67	_	5
South Carolina	74	_	1	_	2	_	1	_	32	_	_
Georgia	11	-	8	_	4	_	11	-	16	4	111
Florida	328	-	12	-	4	-	15	-	1	6	177
	77,		26		1.5		50			,	200
EAST SOUTH CENTRAL	774	_	26 8	_	15 -	1	53 12	_	65 13	4	398 206
Kentucky Tennessee	26 414	_	4		14	_ 1	23	_	43	_	131
Alabama	177	_	8	_	'-		4	_	6	_	55
Mississippi	157	-	6	-	1	-	14	-	3	-	6
											.75
WEST SOUTH CENTRAL	390	-	30	-	26	2	38	-	51	6	475
Arkansas*	3	_	2 7	_	5 6	_	15 4	_	7	1	36 42
LouisianaOklahoma	93		1		9	_			32	3	75
Texas	294	_	20	1	6	2	19	_	12	2	322
MOUNTAIN	1,054	-	7	1	19	-	32	-	17	1	124
Montana	40	-	1	-	-		3	_	6	_	_
Idaho	215 32	_	_	_	4	_	5	_	b	1	56
Wyoming* Colorado	365	_	2	_	4	_	3	_	9	<u> </u>	3
New Mexico	145	_	_	_	1	_	10	_	_	_	22
Arizona	155	-	4	-		-	6	-	_	-	22
Utah	102	-	-	1	14	-	-	-	. 2	-	.5
Nevada	-	-	-		-	-	1	-	-	-	16
DACIFIC	451		1.6		6		70	_	5	3	336
PACIFIC	451 375	_	14	_	6 2	_	70 3	_	3	3	336
Oregon	-	_	i	_	2	_	6	_		_	4
California		_	12	- !	2	_	51	-	2	3	328
Alaska	59	- '	-		-	-	-	-	-	-	-
Hawaii	17	-	-	-		-	10	-	-	-	-
Puerto Rico			13		_		9		_		29
			13				9				29

*Delaved reports: SST: Me. 35, Wyo. 184
Tetanus: N. J. 1, Md. 1
Rabies in animals: Ark. 2

Week No. 52

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED DECEMBER 27, 1969

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

	by place of	- Occurrence	C dild week		ng certificate. Excludes i				
	All Ca	uses	Pneumonia	Under		All Car	ıses	Pneumonia	Under
Area	A11	65 years	and	1 year	Area	A11	65 years	and	1 year
ni cu	Ages	and over	Influenza	A11		Ages	and over	Influenza	A11
	- Bara		All Ages	Causes				All Ages	Causes
			20	00	COUNTY ANY ANY C	0.01	107		20
NEW ENGLAND:	662 208	412 121	38 9	22 8	SOUTH ATLANTIC: Atlanta, Ga	921 114	497 54	46 9	30
Boston, Mass Bridgeport, Conn	38	21	1	° -	Baltimore, Md	198	104	5	10
Cambridge, Mass	37	24	9		Charlotte, N. C	23	12	1	~
Fall River, Mass	23	12	-	1	Jacksonville, Fla	90	58	4	3
Hartford, Conn	3 9	21	2	1 1	Miami, Fla	78	44	1	-
Lowell, Mass	41	24	2	5	Norfolk, Va	30	13	3	2
Lynn, Mass New Bedford, Mass	16 26	9 2 0	2 1		Richmond, Va	57 31	23 13	1 5	1 3
New Haven, Conn	53	36	_	1	St. Petersburg, Fla	68	56	ī	1
Providence, R. I	64	38	6	2	Tampa, Fla	41	26	3	2
Somerville, Mass	5	5	1	-	Washington, D. C	140	60	9	2
Springfield, Mass	44	32	2	2	Wilmington, Del	51	34	4	2
Waterbury, Conn Worcester, Mass	28 40	20 29	3	2	EAST SOUTH CENTRAL:	395	193	21	22
wortester, mass.	40	23	,		Birmingham, Ala	71	28	-	4
MIDDLE ATLANTIC:	2,950	1,718	137	115	Chattanooga, Tenn	22	11	_	_
Albany, N. Y. T	41	24	1	2	Knoxville, Tenn	18	13	1	_
Allentown, Pa	39	24	5	1 1	Louisville, Ky	96	48	14	9
Buffalo, N. Y	150	86 15	6	4	Memphis, Tenn	82	39	4	5
Camden, N. J Elizabeth, N. J	26 23	15 16	1	2	Mobile, Ala Montgomery, Ala	32 20	15 7	1 -	2
Erie, Pa	37	- 24	4	4	Nashville, Tenn	54	32	1	2
Jersey City, N. J	73	46	6	3	,	, ,	J-		_
Newark, N. J	56	24	4	7	WEST SOUTH CENTRAL:	922	480	37	53
New York City, N. Y	1,633	952	73	61	Austin, Tex	24	14	5	3
Paterson, N. J	36 297	22 156	1 2	2	Baton Rouge, La	16	4	1	4
Philadelphia, Pa Pittsburgh, Pa	136	74	12	12	Corpus Christi, Tex Dallas, Tex	13 165	4 82	4	5 1 0
Reading, Pa	50	33	1	2	El Paso, Tex	10	4		4
Rochester, N. Y	113	77	9	5	Fort Worth, Tex	66	37	2	4
Schenectady, N. Y	21	13	2		Houston, Tex	161	83	2	2
Scranton, Pa	22	13	-	-	Little Rock, Ark	35	17	3	4
Syracuse, N. Y	85 48	50 29	-	3	New Orleans, La	175	79	5	3
Trenton, N. J Utica, N. Y	27	19	1 6 ·	2	Oklahoma City, Okla San Antonio, Tex	57 82	35 52	2 4	6
Yonkers, N. Y	37	21	2	2	Shreveport, La	54	31	5	3
,			_	_	Tulsa, Okla	64	38	3	1
EAST NORTH CENTRAL:	2,393	1,392	78	106					
Akron, Ohio	66	40	-	4	MOUNTAIN:	394	224	17	20
Canton, Ohio	36	21	2	4	Albuquerque, N. Mex	33	13	2	1
Chicago, Ill Cincinnati, Ohio	708 147	376 81	22 3	39 5	Colorado Springs, Colo. Denver, Colo	27 103	20 63	2 5	6
Cleveland, Ohio	198	119	4	5	Ogden, Utah	24	9	2	4
Columbus, Ohio	127	64	2	10	Phoenix, Ariz	103	59	1	5
Dayten, Ohio	52	35	4	1	Pueblo, Colo	10	9	-	
Detroit, Mich	342	213	7	8	Salt Lake City, Utah	47	25	3	1
Evansville, Ind	34	23	1	-	Tucson, Ariz	47	26	2	3
Flint, Mich Fort Wayne, Ind	54 54	30 24	3 6	7	PACIFIC:	1,562	1,005	29	46
Gary, Ind	23	12	1	4	Berkeley, Calif	20	1,005		40
Grand Rapids, Mich	53	32	4	2	Fresno, Calif	51	20	2	2
Indianapolis, Ind		79	3	6	Glendale, Calif	28	19	1	-
Madison, Wis	30	21	5	-	Honolulu, Hawaii	32	21	_	1
Milwaukee, Wis	86 37	56 21	1	1 2	Long Beach, Calif	90	63	3	_
Peoria, Ill Rockford, Ill	28	16	4	-	Los Angeles, Calif Oakland, Calif	455 77	309 51	1	9 7
South Bend, Ind	35	24	1	_	Pasadena, Calif	35	28		2
Toledo, Ohio	86	64	4	5	Portland, Oreg	163	111	3	6
Youngstown, Ohio	65	41	-	2	Sacramento, Calif	85	56	2	3
umam wangu anun					San Diego, Calif	107	58	1	3
WEST NORTH CENTRAL:	698	437	20	17	San Francisco, Calif	146	83	3	3
Des Moines, Iowa Duluth, Minn	38 15	27 10	1 3	- 2	San Jose, Calif Seattle, Wash	65 106	38 58	1	2
Kansas City, Kans.T	34	19	3 2	2 2	Spokane, Wash	47	38	1	5
Kansas City, Mo	110	77	1	1	Tacoma, Wash	55	35	3	3
Lincoln, Nebr	16	11	2	1			-		<u> </u>
Minneapolis, Minn	76	55	2	-	Total	10,897	6,358	423	431
Omaha, Nebr	70	39	1	2	Expected Number	13 204	7 790	500	E16
St. Louis, Mo St. Paul, Minn	231 75	135 48	6	3		13,304	7,780	508	546
Wichita, Kans	33	16	2	2 4	Cumulative Total (includes reported corrections				
					for previous weeks)	672,078	384,568	29,703	31,908
					*Mortality data are being collected				
Las Vegas, Nev.*	10	3	2	-	table, however, for statistical reason	ons, these data	will be listed	only and not is	ncluded in
				L	the total, expected number, or cumu	lative total, unt	il 5 years of d	ata are collecte	ed.

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INFLUENZA - (Continued from front page)

Aveyron, Eure-et-Loire, and Haute-Savoie during the week of Dec. 12, 1969, (4) From here, activity spread to involve most of the country and, in particular, the Paris area and the Charentes, Brittany, Normandy, Tourraine, Burgundy, Champagne, Jura, and Languedoc. Of 110 paired sera, 35 percent showed evidence of A2. Hong Kong '68 and 3 percent showed parn-influenza virus type 1. All age groups nppear to have, been affected. (1)

In Italy, an epidemic of major proportions was reported with an estimated 15 to 20 million cases. Strains of A2. Hong Kong '68 were isolated. (4)

In Norway, an intense epidemic due to A2. Hong Kong, 68 was reported from Tromso and Harstad, and an outbreak of influenza-like illness was reported in Oslo. (4) Denmark similarly noted an increase in influenza-like illness. (1)

In Israel, thousands of cases were reported in an outbreak which began during the second week in November. Twenty-four strains of Hong Kong-like virus were isolated.

In Austria, an epidemic of influenza-like illness was reported to be spreading rapidly through the southern Province of Kärnten. From southern Belgium, foci of influenzalike activity were occurring by December 19. (1)

In Spain, the epidemic which began about October 20 in Barcelona and its Province began to decline after reaching a peak between November 15 and 25. Overall mortality was 40 percent higher in November 1969 than in the same month of 1968.

Throughout the Federal Republic of Germany in the south more than the north, outbreaks of influenza-like illness were reported. Infection with the A2 Hong Kong 68 virus was confirmed.

In Switzerland, outbreaks of influenza-like illness occurred in Geneva, Bern, Basel, and Zurich, with isolates of A2 Hong Kong 68 confirmed in the last two cities.

From an outbreak in Czechoslovakia, strains of A2/ Hong Kong 68 were isolated.

The outbreak of influenza which began in November in Croatia and Slovenia, Yugoslavia, spread to the rest of the country in December. More than 35,000 cases were reported in the first 2 weeks of December in Belgrade. Several strains of A2/Hong Kong, 68 virus were isolated.

From an outbreak in Bucarest, Romania, a strain similar to B Mass, 66 influenza virus was isolated.

Thus far this season in the United States, there have been only a few scattered isolates of A2 Hong Kong 68like virus and no influenza B isolates. No outbreaks of upper respiratory illness in the United States except for Alaska (MMWR, Vol. 18, No. 50) have been attributable to the influenza virus.

References (1) World Health Organization Weekly Epidemiological Record 44(51):675, Dec. 19, 1969.

(2) The Registrar General's Provisional Weekly Influenza Statement 1969, 70 No. 2 for England and Wales, London, Dec. 19, 1969.

(3) New York Times, Dec. 30, 1969.

(4) World Health Organization Weekly Epidemiological Record 44(50):661, Dec. 12, 1969.

(Reported by the Respiratory Diseases Unit, Viral Diseases Branch, Epidemiology Program, NCDC.)

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FOLTOR MANAGING EDITOR PRISCILLA B. HOLMAN

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